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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/541,363	05/01/2006	Bartholomeus Trommelen	P70704US0	1164		
136	7590	06/22/2010	EXAMINER			
JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W. SUITE 600 WASHINGTON, DC 20004				BELYAEV, YANA		
ART UNIT		PAPER NUMBER				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/541,363	TROMMELEN ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	YANA BELYAEV	1791	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 02 March 2010.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1,2,4-7,9,11,13 and 14 is/are pending in the application.  
 4a) Of the above claim(s) 7 is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1,2,4-6,9,11,13 and 14 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                         | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ . | 5) <input type="checkbox"/> Notice of Informal Patent Application |
|  | 6) <input type="checkbox"/> Other: _____ .                        |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2 March 2010 has been entered.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-2, 4-6, 9, 11, 13, and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Specifically, it is unclear what is meant by the Applicant in regards to claim 1 wherein the claim states "that during a predetermined time-frame at a start of the extrusion process, measured values or information derived from the measured values is made accessible to the computer for a larger number of measuring cycles than a number of measuring cycles recorded by the thickness- measuring probe in a time-frame of length associated with the predetermined time-frame during an operation other than at the start of the extrusion process."

The Examiner interprets this limitation to mean that more data points from previous measuring cycles which share an equal time-frame of length are used at the start of the extrusion

process, than are used during other times, with equal time-frame length, in the extrusion process. However, if this is the correct interpretation, this is not clear from the current limitation.

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-2, 4-6, 9, 11, 13, and 14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The amendment, in claim 1, of "similar to" to "associated with" on page 3, line 6 changes the scope of the claim, but is not supported by the originally filed specification. The application's original disclosure provides explicit support for the recited "similar to" however "associated with" is not equivalent in scope or meaning to the recited "similar to" because an object, method step, time frame, etc. can be associated with another object, method step, time frame, etc. without being similar to that object, method step, time frame, etc. For example, a time-frame length for the start of an extrusion process can be associated with a time-frame length at the middle of an extrusion process, without being a similar time-frame length. Furthermore one skilled in the art at the time of the invention would not have been apprised of such a limitation in view of the originally filed disclosure.

The amendment, in claims 1 and 2, of "a normal operation" to "an operation other than at the start of the extrusion process" on page 3, lines 7-8 and 24-25 and page 4, lines 2-3 is not

described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The originally filed disclosure provides explicit support for the recited "normal operation" however "an operation other than the at the start of the extrusion process" is not equivalent in scope or meaning to the recited "normal operation" because, for example, the recited limitation of "operations other than at the start of the extrusion process" are construed to encompass operations other than the disclosed "normal operation." Or, conversely, a "normal operation" can be construed to include the start of the extrusion process, for example, from the following description in the specification: "The computer processes, during a predetermined time-frame at the start of the extrusion process, information derived from measured values using or for a greater number of measuring cycles than those recorded by the thickness-measuring probe in a time-frame of similar length during the normal operation and that The computer takes into account these measured values while providing the statistical values," (page 4, lines 1-7). Further one skilled in the art would not have been apprised of such a limitation in view of the originally filed disclosure.

### ***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1, 2, 4-6, 9, 11, 13, and 14 rejected under 35 U.S.C. 103(a) as being unpatentable over European Patent EP0329157 (Akasaka hereinafter).

**In regards to claim 1,** Akasaka teaches a process for automatically controlling a thickness of an extruded film (pg. 2, lines 3-4 and 40-41) comprising: measuring thickness profile values of the extruded film with a thickness-measuring probe that is moved along be a surface of the film substantially perpendicular (x) to a conveying direction (z) of the extruded film, the thickness-measuring probe recording for each measuring cycle (MZ) a thickness profile (P) of the film at least across parts of an expansion of the film perpendicular (x) to the conveying direction (z), i.e. a thickness gauge is reciprocated along the width of the film; transmitting the measured values to a control unit; storing the transmitted measured values in a storage unit, i.e. memory, providing statistical values of the film thickness using a computer by taking into account the measured values or information derived from the measured values using a definite number of measuring cycles (MZ); determining deviations in the statistical values of the film thickness from a target value; and generating control commands to a device for controlling the film thickness, i.e. thickness adjusting device, such that during a predetermined time-frame at a start of the extrusion process, measured values or information derived from the measured values is made accessible to the computer for a number of measuring cycles, and that the computer takes into account the measured values while providing the statistical values, at least a part of the measured values originating from the storage unit, which makes accessible the measured values or the information derived from the measured values to the computer, the measured values or the information derived from the measured values originating from measuring cycles that were

recorded in another extrusion process in which the deviations in the film thickness from the target value lay within an acceptable tolerance range (Fig. 1; Claim 1, pg. 25, line 41 to pg. 26, line 7).

Since there is no mention in the specification explicitly defining "another extrusion process," the examiner interprets "another extrusion process" to be any extrusion process that differs in the time at which it was carried out compared to a reference. Akasaka discloses that past time data is stored in a memory and made accessible to the computer (pg 25, line 49 to pg 26, line 7). The examiner interprets past time data as data from another/previous extrusion processes.

The examiner points out that Akasaka teaches that the data from the measuring probe is measured and stored for the range in which the values fall within or do not fall within proximity of a target value (pg 25, lines 43-52), i.e. the values may be collected when a difference between an actual thickness and a thickness target value lay within "acceptable tolerances". Thus the limitation in claim 1 wherein it states "at least a part of the measured values originating from the storage unit, which makes accessible the measured values or the information derived from the measured values to the computer, the measured values or the information derived from the measured values originating from measuring cycles that were recorded in another extrusion process in which the deviations in the film thickness from the target value lay within an acceptable tolerance range" is encompassed by the teachings of Akasaka.

As for claim 1, Akasaka does not expressly disclose that "during a predetermined time-frame at a start of the extrusion process, measured values or information derived from the measured values" is taken from "a greater number of measuring cycles than those recorded by

the thickness-measuring probe in a time- frame of length similar to the pre-determined time-frame during a normal operation".

It would be obvious to one of ordinary skill in the art at the time the invention was made to increase an amount of data collected by increasing the number of measuring cycles for which information is collected. The motivation for expanding the amount of data collected over an increased number of measuring cycles is to provide a higher degree of accuracy within the process in order to maintain the film thickness to a predetermined amount therefore rendering the process more efficient. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have provided a higher degree of accuracy within the process in order to maintain the film thickness to a predetermined amount during the start of the extrusion process, since at the start of the extrusion process there is no thickness information about the film.

As for claim 1, Akasaka does not expressly disclose that the measured values or the information derived from the measured values originate ONLY from measuring cycles that were recorded in another extrusion process in which the deviations in the film thickness from the target value lay within an acceptable tolerance range.

It would be obvious to one of ordinary skill in the art at the time the invention was made to only include measured values or information derived from measured values from measuring cycles that were recorded in another extrusion process in which the deviations in the film thickness from the target value lay within an acceptable tolerance range. This would thus exclude outliers or measured values that fell within unacceptable tolerances, i.e. unacceptable data points. The motivation to exclude outliers or unacceptable data points (i.e. not reuse unacceptable data

points) is to provide a higher degree of accuracy within the process in order to maintain the film thickness to a predetermined amount therefore rendering the process more efficient.

**In regards to claim 2,** Akasaka teaches that the thickness-measuring probe is moved during a predetermined time-frame at the start of the extrusion process (pg 25, lines 47- 48); and in doing so determines for each time unit the measured values (pg 25, lines 43- 44); and makes the measured values accessible to the computer (pg 25, line 49 to page 26, line 7).

Akasaka does not expressly disclose that the measuring probe moves "more quickly along the surface of the extruded film than in normal operation" and that the collected data is thus taken from a "larger number of measuring cycles than the number of measuring cycles used in normal operation".

It would be obvious to one of ordinary skill in the art at the time the invention was made to move the measuring probe more quickly. By moving the probe faster/more quickly, one would be able to collect more data from the measuring probe in a similar time frame and thus perform the necessary control modifications to correct between the deviations in the measured values compared to the set value in less time than "normal operation" therefore rendering the process more efficient. The motivation to increase the speed at which the probe moves is provided by Akasaka in that the conventional method has drawbacks in that there is a large dead time for which it takes the thickness measuring probe to reach the end of the film such that it takes time for the corrections to be made by the control system (pg 3, lines 10-23). Moving the probe "more quickly" would be an obvious way to decrease the dead time. Therefore, it would have been

obvious to one of ordinary skill in the art to obtain this invention.

**In regards to claim 4 and 9,** Akasaka teaches that various weighting factors (i.e. coefficients) are assigned to the measured values or the information derived from the measured values using different measuring cycles with which the contribution of the measured values or of the information derived from the measured values to the statistical values is defined (pg 25, lines 56-58).

**In regards to claim 5,** Akasaka further teaches that the coefficient which the data is multiplied by is subject to change and therefore teaches that these weighting factors are changed at the start of the extrusion process (pg 27, lines 33-39).

**In regards to claims 6, 11, 13, and 14,** Akasaka teaches that the measured values or the information derived from the measured values using other extrusion processes stored in the storage device are assigned to the process parameters that prevailed when they were recorded (pg 4, lines 56-58). Akasaka teaches under summary of the invention that the thickness data memory stores thickness data of the film which is measured by the thickness gauge over the whole width of the film and which is thickness data of each portion of the film corresponding to each of the operating terminal devices (pg 4, line 56-58). The examiner is interpreting thickness data stored in the data memory to included data related the thickness of the film including process parameters and therefore the measured values or information derived from the measured values is stored along with corresponding process parameters.

***Response to Arguments***

8. Applicant's arguments filed 2 February 2010 have been fully considered but they are not persuasive.

*The Applicant argues that Akasaka does not control the thickness of the extruded film by taking only values into account that were measured during a previous extrusion in which the deviations in the film thickness from the target value lay within an acceptable tolerance range.*

The Examiner addresses this point on the bottom of page 6 of the Office Action mailed 2 September 2009. Specifically, the Examiner stated that it would be obvious to one of ordinary skill in the art at the time the invention was made to only include measured values or information derived from measured values from measuring cycles that were recorded in another extrusion process in which the deviations in the film thickness from the target value lay within an acceptable tolerance range. This would thus exclude outliers or measured values that fell within unacceptable tolerances, i.e. unacceptable data points. The motivation to exclude outliers or unacceptable data points (i.e. not reuse unacceptable data points) is to provide a higher degree of accuracy within the process in order to maintain the film thickness to a predetermined amount therefore rendering the process more efficient.

The Applicant does not argue the reasoning of this statement made by the Examiner in the aforementioned office action.

*The Applicant argues that the Office Action mailed 2 September 2009 does not take into account that Akasaka does not address the problem of reducing the deviation in the thickness*

*profile of the web after starting the extrusion process, but only deals with the problem of reducing deviation in the thickness profile during normal production of the web.*

The Examiner respectfully disagrees. It would be obvious to one of ordinary skill in the art at the time the invention was made to increase an amount of data collected by increasing the number of measuring cycles for which information is collected. The motivation for expanding the amount of data collected over an increased number of measuring cycles is to provide a higher degree of accuracy within the process in order to maintain the film thickness to a predetermined amount therefore rendering the process more efficient. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have provided a higher degree of accuracy within the process in order to maintain the film thickness to a predetermined amount during the start of the extrusion process, since at the start of the extrusion process there is no thickness information about the film.

*The Applicant argues that the interpretation offered in the Office Action mailed 2 September 2009 of the phrase, “another extrusion process” is not correct, specifically that “another extrusion process” is not any extrusion process that differs in time.*

The Examiner respectfully disagrees. Since the term “another extrusion process” is not explicitly defined in the original disclosure, “another extrusion process” is to be given the broadest reasonable interpretation, which includes any extrusion process that differs in the time at which it was carried out compared to a reference. See MPEP 904.01 and *In re Morris*, 127 F.3d 1048, 44 USPQ2d 1023 (Fed. Cir. 1997).

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YANA BELYAEV whose telephone number is (571)270-7662. The examiner can normally be reached on M-Th 8:30am - 6pm; F 8:30 am- 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on (571) 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Y. B./  
Examiner, Art Unit 1791

/Jason L Lazorcik/  
Primary Examiner, Art Unit 1791